

FY2013

DETROIT ARSENAL

Army Defense Environmental Restoration Program

Installation Action Plan

Printed 24 September 2013

Table of Contents

Statement Of Purpose.....	1
Acronyms.....	2
Installation Information.....	3
5-Year / Periodic Review Summary.....	4
Cleanup Program Summary.....	5
Compliance Restoration.....	6
CR Summary.....	7
CR Contamination Assessment.....	8
CR Previous Studies.....	9
Compliance Restoration Site Descriptions.....	10
CC-002 Building 1533 Diesel UST Gasoline UST.....	11
Compliance Restoration Site Closeout (No Further Action) Sites Summary.....	13
CR Schedule.....	14
Compliance Restoration Milestones.....	14
CR Schedule Chart.....	15

Statement of Purpose

The purpose of the Installation Action Plan (IAP) is to outline the total multi-year cleanup program for an installation. The plan identifies environmental cleanup requirements at each site or area of concern (AOC), and proposes a comprehensive, installation-wide approach, along with the costs and schedules associated with conducting investigations and taking the necessary remedial actions (RA).

In an effort to coordinate planning information between the restoration manager, the Installation Management Command (IMCOM)-Central, the US Army Environmental Command (USAEC), US Army Garrison-Detroit Arsenal (USAG-DTA), the executing agencies, the regulatory agencies, and the public, an IAP was completed. The IAP is used to track requirements, schedules, and tentative budgets for all major Army installation cleanup programs.

All site-specific funding and schedule information has been prepared according to projected overall Army funding levels and is, therefore, subject to change.

Acronyms

AEDB-CC	Army Environmental Database - Compliance-related Cleanup
AEDB-R	Army Environmental Database - Restoration
AOC	Area of Concern
AS	Air Sparging
BASEOP	Base Operations
BLDG	Building
BRAC	Base Realignment and Closure
CAP	Corrective Action Plan
DD	Decision Document
DERP	Defense Environmental Restoration Program
FRA	Final Remedial Action
IAP	Installation Action Plan
IMCOM	Installation Management Command
IRA	Interim Remedial Action
IRP	Installation Restoration Program
K	thousand
LTM	Long-Term Management
MDEQ	Michigan Department of Environmental Quality
MDNR	Michigan Department of Natural Resources
MIANG	Michigan Army National Guard
N/A	Not Applicable
NFA	No Further Action
NPL	National Priorities List
ODUSD(I&E)	Office for the Undersecretary of Defense for Installations and Environment
POL	Petroleum, Oil and Lubricants
RA	Remedial Action
RA(C)	Remedial Action (Construction)
RAB	Restoration Advisory Board
RC	Response Complete
RCRA	Resource Conservation and Recovery Act
RIP	Remedy-In-Place
ROD	Record of Decision
SANGB	Selfridge Air National Guard Base
SI	Site Investigation
SVE	Soil Vapor Extraction
TAPP	Technical Assistance for Public Participation
TBD	To Be Decided
TRC	Technical Review Committee
USACE	US Army Corps of Engineers
USAEC	US Army Environmental Command
USAG-DTA	US Army Garrison-Detroit Arsenal

Installation Information

Installation Locale

Installation Size (Acreage): 2

City: Mt. Clemens

County: Macomb

State: Michigan

Other Locale Information

The USAG-DTA site (CC-002) is located on the Selfridge Air National Guard Base (SANGB). The property is on the US Air Force Real Property Inventory.

Building (Bldg) 1533 and its associated parking lots and drainage area occupy approximately two acres.

Installation Mission

The site was built as part of the NIKE missile defense. Bldg 1533 and the underground storage tanks (USTs) were part of the support Bldgs to the silo. Then the Army used this site for support of BASEOP. Currently, the Army has no mission and the Department of Homeland Security, Border Patrol (Border Patrol) occupies the facility. The Border Patrol uses Bldg 1533 as a vehicle maintenance service center.

Lead Organization

IMCOM

Lead Executing Agencies for Installation

US Army Corps of Engineers (USACE)-Louisville District

Regulator Participation

State Michigan Department of Environmental Quality (MDEQ)

National Priorities List (NPL) Status

DETROIT ARSENAL is not on the NPL

Installation Restoration Advisory Board (RAB)/Technical Review Committee (TRC)/Technical Assistance for Public Participation (TAPP) Status

RAB established 199511

Installation Program Summaries

CR

Primary Contaminants of Concern: Metals, Other (Methane), Petroleum, Oil and Lubricants (POL), Polycyclic Aromatic Hydrocarbons (PAH), Semi-volatiles (SVOC), Volatiles (VOC)

Affected Media of Concern: Groundwater, Other (Vapor intrusion), Soil, Surface Water

5-Year / Periodic Review Summary

5-Year / Periodic Review Summary

Status	Start Date	End Date	End FY
Complete	200909	200912	2010
Complete	200407	200412	2005
Planned	201409	201412	2015

Last Completed 5-Year / Periodic Review Details

Associated ROD/DD Name	Sites
FOST-6 DECISION DOCUMENT	DATP95--44, DATP95-42, DATP95-43
Site Wide Decision Document/RAP	DATP95--44, DATP95-20, DATP95-21, DATP95-22, DATP95-23, DATP95-24, DATP95-25, DATP95-26, DATP95-27, DATP95-28, DATP95-29, DATP95-30, DATP95-31, DATP95-32, DATP95-33, DATP95-34, DATP95-35, DATP95-36, DATP95-37, DATP95-38, DATP95-39, DATP95-40, DATP95-41, DATP95-42, DATP95-43, DATP95-45, DATP95-46, DATP95-47, DATP95-48, DEARS-15, DEARS-3, SWITCHGEAR

Results Five Year Review completed in DEC 2009; Deed restrictions and site integrity remain intact.

Actions Five Year Review Report forwarded to Michigan Department of Natural Resources & Environment (MDNRE) with recommendation that the requirement for future Five Year Reviews be suspended.

Plans Discontinue Five Year Reviews for the site and submit public notice to all stakeholders and constituents.

Recommendations and Implementation Plans:

The five-year reviews were conducted for a USAG-DTA closed site and are no longer required. The open site (CC-002) located at SANGB is not required to have five-year reviews.

Cleanup Program Summary

Installation Historic Activity

In 1990, the Air Force issued a permit granting the Army use and occupancy of real property identified as Facility 1533, Vehicle Maintenance Shop, SANGB. The term of occupancy was for five years from 1989 through 1994. The permit was silent regarding the on-site USTs. In 1991, the Army, as user of the site UST, discovered that they were losing fuel and upon further investigation, determined that the tank was leaking. Because there was no way to determine how long the leak had been occurring, the Army, as tenant at the site, took action and excavated the leaking tank.

Subsequently, the Army submitted notice of the release and contaminated soil conditions to the Michigan Department of Natural Resources (MDNR) (now known as the Michigan Department of Environmental Quality [MDEQ]). The Army, as the tenant, subsequently funded a voluntary partial cleanup of the site; however, the responsibility and ramifications of assuming this task were not fully understood. Subsequent to the partial cleanup action, the Army petitioned the MDEQ for site closure, but it was rejected. When the property was transferred back to the Air Force, there was acknowledgement by both the Army and the Air Force that the site was contaminated and in need of further characterization and remediation.

Between discovery of the contamination and the present, the site has been extensively studied and an air-sparging (AS) system was installed and operated to protect private residential drinking water wells near the base.

In 2011, despite not having a signed agreement, the Army was assigned responsibility for the site cleanup under the Installation Restoration Program (IRP). Because of the length of time that the site has been in existence, and the lack of effort to reach a site decision regarding target cleanup levels, the first step will be outreach with MDEQ to establish objectives and criteria for the site cleanup. Based on a 2010 final site investigation and corrective action plan (CAP) containing historic groundwater monitoring data, it is expected that MDEQ will require additional groundwater monitoring to ensure that groundwater remediation is not compromised and is protective of the private residential drinking water wells.

The site and building structure are currently occupied and used by the Border Patrol as an industrial/commercial site for vehicle maintenance. The Border Patrol was granted use of this site by 127th Michigan Army National Guard (MIANG) Wing that controls this property. In order to fully characterize and remediate the site, it may be necessary to have the site and structure vacated.

Installation Program Cleanup Progress

CR

- Prior Year Progress:** During FY2013 the AS/soil vapor extraction (SVE) unit was redesigned and placed in operation. The SI phase will begin summer 2013. The goal of the SI is to fully delineate the nature and extent of contamination. The SI involves soil borings, groundwater and soil gas vapor sampling as well as the installation of monitoring wells.
- Future Plan of Action:** Quarterly sampling and monitoring will begin in FY14. The final SI report is scheduled for FY14. Quarterly sampling and monitoring will continue into FY15. The final corrective action report is scheduled for FY15.

DETROIT ARSENAL
Army Defense Environmental Restoration Program
Compliance Restoration

CR Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) Sites/Closeout Sites Count: 1/0

Installation Site Types with Future and/or Underway Phases

1 Underground Storage Tank
(CC-002)

Most Widespread Contaminants of Concern

Metals, Other (Methane), Petroleum, Oil and Lubricants (POL), Polycyclic Aromatic Hydrocarbons (PAH), Semi-volatiles (SVOC), Volatiles (VOC)

Media of Concern

Groundwater, Other (Vapor intrusion), Soil, Surface Water

Completed Remedial Actions (Interim Remedial Actions/ Final Remedial Actions (IRA/FRA))

Site ID	Site Name	Action	Remedy	FY
CC-002	Building 1533 Diesel UST Gasoline UST	IRA	WASTE REMOVAL - SOILS	2003
CC-002	Building 1533 Diesel UST Gasoline UST	IRA	NATURAL ATTENUATION	2004
CC-002	Building 1533 Diesel UST Gasoline UST	IRA	SOIL VAPOR EXTRACTION	2004
CC-002	Building 1533 Diesel UST Gasoline UST	IRA	AIR SPARGING	2004
CC-002	Building 1533 Diesel UST Gasoline UST	IRA	NATURAL ATTENUATION	2004

Duration of CR

Date of CR Inception: 199212

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201906/202106

Date of CR completion including Long Term Management (LTM): 202106

CR Contamination Assessment

Contamination Assessment Overview

On Dec. 29, 2008, the Office of the Deputy Under Secretary of Defense for Installations and Environment, [ODUSD(I&E)], issued an interim policy for the Defense Environmental Restoration Program (DERP) eligibility that rescinded the 1986 eligibility date for the IRP and the 2002 eligibility date for the Military Munitions Response Program (MMRP). This made many sites previously addressed in the Army's Compliance-related Cleanup (CC) program eligible for the DERP. Sites which are now eligible for the Munitions Response (MR) program have been migrated from Army Environmental Database-Compliance-related Cleanup (AEDB-CC) and given the naming convention of other MR sites. The newly eligible non-MR type sites are considered to be Installation Restoration (IR) sites; however, the newly eligible sites are being coded as Compliance Restoration (CR) in Army Environmental Database - Restoration (AEDB-R) to distinguish them from the original IR sites and IR metrics.

Environmental restoration activities at USAG-DTA includes only one CR site.

Cleanup Exit Strategy

The 2010 SI/CAP is being used as the basis for continuing work under a RCRA facility investigation (RFI)/corrective measures study (CMS).

CR Previous Studies

2010

Title

Author

Date

Final Site Investigation/Corrective Action Plan, Bldg 1533	AMEC	MAR-2010
---	------	----------

DETROIT ARSENAL
Compliance Restoration
Site Descriptions

Site ID: CC-002

Site Name: Building 1533 Diesel UST Gasoline UST

STATUS

Regulatory Driver: RCRA

Phases	Start	End
ISC.....	199212.....	199212
INV.....	199301.....	200301
CAP.....	200810.....	201612
IRA.....	200303.....	200401
IMP(C).....	201806.....	201906
IMP(O).....	201906.....	202106
RIP Date:	201906	
RC Date:	202106	

SITE DESCRIPTION

Historically, Bldg 1533 and the associated area is a former NIKE missile site and support building.

In 1990, the Air Force issued a permit granting the Army use and occupancy of the real property, in land tenant capacity, identified as Building 1533, Vehicle Maintenance Shop, SANGB, Michigan. The term of occupancy was for five years from 1989 through 1994. The permit was silent with regards to the two USTs (one gasoline and one diesel) located on-site.

In 1991, the Army discovered they were losing fuel from the USTs and, upon further investigation determined the tank(s) were leaking. In 1992, as it was impossible to determine how long the USTs had been leaking, the Army excavated the two USTs. Subsequently, the Army submitted a notice of release and contaminated soil conditions to the MDEQ. The Army funded a voluntary partial cleanup of the site; however, the responsibility and ramifications of assuming this task were not fully understood. Following the partial cleanup action, the Army petitioned the MDEQ for site closure. Site closure was not granted.

In 1994, upon the Army land tenant vacating both site, there was an acknowledgement by both the Army and the Air Force that the site was contaminated and would require further characterization and remediation. In 2011, despite not having a signed agreement between the Army and the Air Force, the Army was assigned responsibility for the site cleanup under IRP.

Sometime between 2003 and 2005, an AS/SVE system was installed as an interim preventive measure for off-base migration of contaminants. The MDEQ approved the system based up the initial site investigation. The Base Realignment and Closure (BRAC) of 2005 identified the SANGB for closure. As a result, all Army cleanup sites with an identified SANGB location automatically dropped out of the Army's cleanup programs. Therefore, from the perspective of the Army's funding and program management, the site ceased to exist. The SANGB continued to fund the AS/SVE out of BASEOP dollars until closure in September 2008. The USAG-DTA provided BASEOP dollars to the SANGB for AS/SVE operations in 2009, as a temporary measure. The USAG-DTA was unable to sustain site funding as this was an unauthorized SANGB mission. As a result, the system had been inoperable since the shutdown in approximately September 2010. In 2012, a contract was awarded to repair, operate, and maintain the AS/SVE.

In 2010 a final SI/CAP was submitted to the MDEQ. Comments from the MDEQ identified potential data gaps including, but not limited to: incomplete horizontal/vertical delineation, vapor intrusion concerns, and uncertain hydrologic conductivity with a downgradient drainage trench.

In 2012, a contract was awarded to complete a SI to address the data gaps identified in the MDEQ comments. The contract has an optional CAP that can be awarded, if needed, after the successful completion of the SI.

The Border Patrol is the current tenant of Building 1533 and uses the site in an industrial/commercial capacity. The Border Patrol was granted use of this site by 127th Michigan Army National Guard (MIANG) Wing, which controls said property. In order to fully characterize and remediate the site, it may be necessary to have the facility vacated.

Site ID: CC-002

Site Name: Building 1533 Diesel UST Gasoline UST

Footer Note: In 2009, due to changes in DERP eligibility, the site was migrated from database AEDB-CC to AEDB-R. Prior to the opening of FY13 AEDB-R spring Data Call, site CC-002 was removed from reporting under US Army Garrison-Michigan and realigned to report under USAG-DTA.

CLEANUP/EXIT STRATEGY

The 2010 SI/CAP is being used as the basis for continuing work under a RCRA facility investigation (RFI)/corrective measures study (CMS).

Site Closeout (No Further Action) Summary

Site ID

Site Name

NFA Date

Documentation

There are no NFA sites

CR Schedule

Date of CR Inception: 199212

Past Phase Completion Milestones

1993

ISC (CC-002 - Building 1533 Diesel UST Gasoline UST)

2003

INV (CC-002 - Building 1533 Diesel UST Gasoline UST)

2004

IRA (CC-002 - Building 1533 Diesel UST Gasoline UST)

Projected Phase Completion Milestones

See attached schedule

Projected Record of Decision (ROD)/Decision Document (DD) Approval Dates


To Be Determined

Final RA(C) Completion Date: 201906

Schedule for Next Five-Year Review: 2014

Estimated Completion Date of CR at Installation (including LTM phase): 202106

DETROIT ARSENAL CR Schedule

 = phase underway

SITE ID	SITE NAME	PHASE	FY14	FY15	FY16	FY17	FY18	FY19+
CC-002	Building 1533 Diesel UST Gasoline UST	CAP						
		IMP(C)						
		IMP(O)						

Community Involvement

Technical Review Committee (TRC): None

Community Involvement Plan (Date Published): TBD

Restoration Advisory Board (RAB): RAB established 199511

RAB Adjournment Date: 200204

RAB Adjournment Reason: All environmental restoration remedies are in place and are operating properly and successfully.

Additional Community Involvement Information

There has never been a RAB covering the non-BRAC actions for Detroit Arsenal, including Site CC-002. Sampling of potable water wells will be required in the future and, thus, additional community involvement will be required.

An understanding has been reached (although no signed agreement currently exists) that site CC-002 will be covered by the SANGB RAB. The National Guard Bureau is the one point of contact with the public and regulators for any issue dealing with SANGB property.

Administrative Record is located at

US Army Garrison Detroit Arsenal
Directorate of Public Works (Environmental MS108)
6501 East Eleven Mile Road
Warren, MI 48397-5000

Information Repository is located at

Selfridge Air National Guard Base
127th Wing CEV
29570 Wilbur Wright Blvd
Selfridge ANG Base
MI 48045-5195

Current Technical Assistance for Public Participation (TAPP):N/A

TAPP Title: N/A

Potential TAPP: N/A

